

NORTHAMPTON COMMUNITY COLLEGE  
AND  
WILKES UNIVERSITY  
ASSOCIATE IN SCIENCE (A.S.) DEGREE IN ENGINEERING  
TO  
BACHELOR OF SCIENCE (Engineering Programs)

Northampton Community College and Wilkes University have agreed to a correlation of their curricula for students in the above mentioned degree program who wish to complete the B.S. in engineering at Wilkes University. Engineering programs at Wilkes include civil engineering, electrical engineering, environmental engineering, and mechanical engineering. Subject to the terms of this agreement, a student who satisfactorily completes the requirements of an Associate's Degree in Engineering at Northampton Community College with a 2.0 grade point average (GPA) or above, will be granted admission to Wilkes University and will have his or her credits earned, with a grade of 2.0 or above, accepted for transfer based on the attached course equivalency. The following terms and conditions, however, will apply:

1. the student must meet deadline dates for application, payment of fees, etc. that would normally apply to other new students at Wilkes University; and
2. the student must select civil, electrical, environmental, or mechanical engineering as a major; and
3. the student must submit an application to WU at least 60 days prior to the start of the desired matriculation semester; and
4. the student cannot attend another university institution between the time the student graduates from NCC and when enrollment commences at Wilkes University; and
5. the student shall choose the recommended elective courses and course sequences as agreed to on the attached course equivalence sheet.
  - If either of the above terms or conditions is not met, Wilkes University shall determine the appropriate transfer of credit on an individual basis.
  - Coursework completed at an institution other than NCCC is not covered under this agreement and will be evaluated for transfer on a course-by-course basis.
  - The student who does not meet the 2.0 GPA requirement should contact the Wilkes University Office of Admissions for options.

Students who wish to transfer to Wilkes University prior to qualifying for the Associate in Engineering degree at Northampton Community College must submit their transcript for evaluation on a course-by-course basis by Wilkes University.

The student is not required to take the courses in the same order as they appear in the articulation agreement. The student, however, should make changes only after consultation with an advisor.

Under this articulation agreement Wilkes University will provide full-time students, who meet the terms and conditions as described above, with

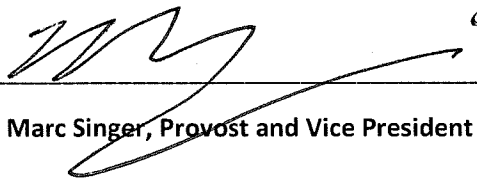
1. a guaranteed base \$17,000 annual scholarship towards their cost of attendance
  - a. Full time students with a 3.30 or above are eligible to receive additional Wilkes merit scholarships
  - b. Phi Theta Kappa members are eligible to receive a \$2,000 bonus scholarship in addition to merit-based scholarships
    - i. The \$17,000 base scholarship is included in the transfer scholarship amount
2. a maximum of 6 credits tuition free during a summer term once enrolled and matriculation at Wilkes University OR \$3,500 tuition relief on a fifth semester at Wilkes University.

This articulation agreement is subject to annual review by faculty in the respective departments and the academic administration at Wilkes University. Either Wilkes University or Northampton Community College may terminate this agreement at any time via a written notice thirty days in advance of the effective date of termination. It is understood that any termination will not apply to students who have already started the Associate in Science degree program in Engineering towards the B.S. in engineering at Wilkes University.

**SIGNATURES**

The undersigned representatives of the parties, Northampton Community College and Wilkes University, have executed this agreement on the dates indicated:

*For Northampton Community College:*

  
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**Dr. Marc Singer, Provost and Vice President of Academic and Student Affairs**

9/4/24  
Date

*For Wilkes University:*

DocuSigned by:  
  
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\_\_\_\_\_

**Dr. David Ward, Senior Vice President and Provost**

8/19/2024 | 2:35 PM EDT  
Date

**Semester-by-Semester Course Mapping**  
**NCCC Engineering- Associate in Science (2024-25 Catalog) Program and Wilkes University Engineering\***

Term	Northampton Community College Required Courses for an Engineering-Associate in Science Degree		Credits	Wilkes University Required Courses during the first two years		Credits
	ENGL 101 COLS 101 COMM 101 MATH 180 CHEM 120 MATH 181 PHYS 215 CISC 115 ENGL 151L MATH 210 PHYS 225 #ENGG 201 #CADM 100 MATH 211 #ENGG 251	English I College Success Introduction to Communication Calculus I General Chemistry I Calculus II Physics for Science & Engineering I Computer Science English II (Literature) Calculus III Physics for Science & Engineering II Statics - Engineering Elective Engineering Graphic Essentials- Technical Elective Differential Equations Strength of Materials – Engineering Elective <sup>1</sup> Arts & Humanities Gen. Ed. Elective. Please take ARTA 101 or THEA 110 or MUSC 101 or PHIL 201 or PHIL 202 <sup>2</sup> Scientific Study of Human Behavior Gen. Ed. Elective. Please take PSYC 103 or SOCA 103 <sup>3</sup> Societies & Institutions Gen. Ed. Elective. Please take HIST 153 or POLS 110				
First Semester	ENG 101	English I	3	ENG 101	Composition	4
	COLS 101	College Success	1	COM 101	Fundamentals of Public Speaking	3
Second Semester	MATH 180	Calculus I	4	MTH 111	Calculus I	4
	CHEM 120	General Chemistry I	4	CHM 115 CHM 113	Elements & Compounds Elements & Compounds Laboratory	3 1
Third Semester	MATH 181	Calculus II	4	MTH 112	Calculus II	4
	PHYS 215	Physics for Science & Engineering I	5	PHY 201 PHY 204	General Physics I General Physics I Laboratory Free Elective	3 1 1
Fourth Semester	CISC 115	Computer Science	4	CS 125	Computer Science I (meets EGR 140 requirements for ME & EE majors)	4
	ENGL 151L	English II (Literature)	3	ENG 120	Literature	3
First Semester	MATH 210	Calculus III	4	MTH 212	Multivariable Calculus	4
	PHYS 225	Physics for Science & Engineering II	5	PHY 202 PHY 205	General Physics II General Physics II Laboratory Free Elective	3 1 1
Second Semester	#ENGG 201	Statics - Engineering Elective	3	EGR 231	Statics	3
	#CADM 100	Engineering Graphic Essentials- Technical Elective	3	EGR 180	CADD Lab Free Elective	1 2
Third Semester	MATH 211	Differential Equations	4	MTH 211	Intro. to Ordinary Differential Equations	4
	#ENGG 251	Strength of Materials – Engineering Elective	3	ME 232	Strength of Materials	3
Fourth Semester		<sup>1</sup> Arts & Humanities Gen. Ed. Elective. Please take ARTA 101 or THEA 110 or MUSC 101 or PHIL 201 or PHIL 202	3		ART 101/THE 100/MUS 101/PHL 101/PHL 110	3
		<sup>2</sup> Scientific Study of Human Behavior Gen. Ed. Elective. Please take PSYC 103 or SOCA 103	3		PSY 101/SOC 101	3
		<sup>3</sup> Societies & Institutions Gen. Ed. Elective. Please take HIST 153 or POLS 110	3		HST 101/PS 111	3

#ENGG 252	Dynamics	3	ME 234	Dynamics	3
Total Credits				65	Total Credits
				65	65

\*Wilkes Engineering means Civil/Electrical/Environmental/Mechanical Engineering Disciplines; graduation requirements vary within these programs.  
 † Recommended Engineering Electives

**Notes: FYF 101 at Wilkes University is waived for students transferring with at least 23 credits**

**CHEM 120 meets CHM 117 and 118 requirements**

**Requirements at Wilkes University for Civil, Electrical, Environmental, and Mechanical Engineering Programs**

Civil		Credits	Environmental		Credits
Course			Course		
EGR 200 Materials Science		3	ENV 205 Env. Microbiology		3
ENV 240 Intro to Environ Systems & Sustainability		3	ENV 240 Intro to Environ Systems & Sustainability		3
ENV 240 Intro to Environ Systems & Sustainability Lab		1	ENV 240 Intro to Environ Systems & Sustainability Lab		1
			Science Elective		3
ENV 201 Probability & Statistics for Engineers		3	ENV 201 Probability & Statistics for Engineers		2
			ME 322 Thermodynamics		3
CE 261 Construction Project Mgt & Engineering Econ		3	ENV 315 Soils		3
CE 231 Soil Mechanics + CE 233 Soil Mechanics Lab		3 + 1	CE 261 Construction Project Mgt & Engineering Econ		3
ENV 321 Hydrology + ENV 323 Hydrology Lab		3 + 1	ENV 321 Hydrology		3
CE 263 Structural Analysis		3	ENV 323 Hydrology Lab		1
ME 321 Fluid Mechanics		3	ME 321 Fluid Mechanics		3
ME 323 Fluid Mechanics Lab		1	ME 323 Fluid Mechanics Lab		1
EGR 201 Engineering Ethics & Professionalism		1	EGR 201 Engineering Ethics & Professionalism		1
CE 354 Groundwater Engineering		3	ENV 355 Environmental Design Lab		1
CE 390 Civil Junior Seminar		1	ENV 390 Junior Seminar		1
CE 355 Civil Design Lab		1	ENV 330 Water Quality		4
GIS 271 Introduction to GIS and GPS		3	GIS 271 Introduction to GIS and GPS		3
CE 311 Geotechnical Engineering		3	ENV 332 Air Quality		3
CE 321 Open Channel Hydraulics		3	ENV 305 Solid Waste Management		3
CE 325 Sustainable Engineering		3	ENV 322 Water Resources Engineering		3
CE 327 Advanced Engineering Graphics		3	ENV 352 Hydraulic Engineering		3
CE 391 Senior Projects I		1	ENV 391 Senior Projects I		1
CE 392 Senior Projects II		2	ENV 392 Senior Projects II		2
Technical Electives *		9	Technical		3

Science Elective	3	ENV 353 Air Pollution Control	3
Distribution Requirements	6	ENV 354 Hazardous Waste Management	3
		ENV 356 Physical & Chemical Treatment Processes	3
		ENV 357 Biological Treatment Processes	3
		Distribution Requirements	6
<b>Total Credits</b>	<b>70</b>	<b>Total Credits</b>	<b>75</b>

<b>Mechanical</b>		<i>Course</i>	<i>Credits</i>
		EGR 200 Materials Science	3
		EE 211 Electrical Circuits and Devices	3
		EE 283 Electrical Engineering Lab	1
		EGR 222 Mechatronics	3
		ME 175 Machining	1
		ME 215 Manufacturing Processes	3
		ME 322 Thermodynamics	3
		ME 333 Machine Design	3
		ME 335 Finite Element Methods	4
		ME 321 Fluid Mechanics	3
		ME 323 Fluid Mechanics Lab	1
		EGR 201 Engineering Ethics & Professionalism	1
		EGM 320 Engineering Project Management	3
		ME 324 Heat Transfer	3
		ME 332 Vibrations	3
		ME 330 Vibrations Laboratory	1
		ME 326 Heat Transfer Laboratory	1
		Math/Science Elective	3
		ME 384 Mechanical Design Laboratory	3
		ME 317 Robotics	3
		EGR 391 Senior Projects I	1
		EGR 392 Senior Projects II	2
		Technical / Concentration Electives	6
		Distribution Requirements	6
		Free elective	3

Engineering Elective	3
<b>Total Credits</b>	<b>70</b>

## Electrical Engineering

Course	Credits
EE 216 Circuit Analysis I	3
EE 217 Circuit Analysis II	3
EE 283 Electrical Circuits Lab	1
EE 251 Electronics I	3
EGR 222 Mechatronics	3
EE 241 Digital Design	4
EE 252 Electronics II	4
EE 271 Semiconductor Devices	4
EE 381 Microfabrication Lab	3
EGR 214 Linear Systems	3
EGM 320 Engineering Project Management	3
EE 314 Control Systems	3
EE 337 Engineering Electromagnetics I	3
EE 325 Energy Conversion Devices	3
EE 339 Engineering Electromagnetics II	4
EE 382 Modern Communication Systems	4
EE 391 Senior Projects I	1
EE 392 Senior Projects II	2
Engineering Electives	9
Math/Science Elective	3
Distribution Requirements	6
<b>Total Credits</b>	<b>72</b>

